

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/087825 A2

(51) International Patent Classification⁷: C08F 220/00

(74) Agent: WINCKELS, J.H.F.; Johan de Wittlaan 7,
NL-2517 JR Den Haag (NL).

(21) International Application Number:
PCT/NL2005/000203

(22) International Filing Date: 17 March 2005 (17.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/804,302 18 March 2004 (18.03.2004) US

(71) Applicant (for all designated States except US): UNI-
VERSITEIT UTRECHT [NL/NL]; Heidelberglaan 8,
NL-3584 CS Utrecht (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HENNINK,
Wilhelmus, Everhardus [NL/NL]; Zuidplasmaan 120,
NL-2743 CZ Waddinxveen (NL). VAN NOSTRUM,
Cornelis, Franciscus [NL/NL]; Achterstraat 56, NL-5251
CV Vlijmen (NL). VAN STEENBERGEN, Marinus,
Jacob [NL/NL]; Trumandreef 104, NL-6716 DM Ede
(NL). SOGA, Osamu [JP/JP]; 15-304, 4098-21 Yatabe,
Hasaki-machi, Ibaraki 314-0341 (JP).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: TEMPERATURE SENSITIVE POLYMERS

(57) Abstract: The present invention relates to compositions comprising polymers whose solubility characteristics can be changed by incubation and particularly ploy (hydroxyalkyl (meth) acrylamide mono/di-lactate) interpolymers. Another aspect of this invention is the application of such temperature sensitive polymers as release systems of biologically active compounds. The polymers of the present invention comprise monomers, which have modifiable functionality. The functionality of the monomers can for example be modified by the presence of hydrolysable groups. The modification is effected by the incubation, leading to a change of the water solubility characteristics of the polymer. The polymers used in the present invention contain hydrolysable chemical groups. As a result the polymer's solution characteristics, specifically its lower critical solution temperature (LCST), change upon incubation.



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